

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**



Applicants: David White

Serial No.: 10/666,807

Title: COMPOSITIONS, KITS AND METHODS FOR PROGNOSTICATION,
DIAGNOSIS, PREVENTION, AND TREATMENT OF BONE-RELATED
DISORDERS AND OTHER DISORDERS

Attorney/Agent: Kerri Pollard Schray

Docket No.: MPI99-130P1RCN1M

Filed: September 18, 2003

Sheet 1 of 19

H --- -MGPTLAVPTPYGCIGCKLPQPEYPPALIIFMFCAVVITIVVDILIGNSMVILAVTKNNKLRNS
M MATVPKSNMGPTKAUPTPFGGCIGCKLPKPDYPPALIIFMFCAVVITIVVDILIGNSMVILAVTKNNKLRNS
R ---

H GNIFVVSISSVADMLVATYPYPLMHLAMSIGWDLSQLQCOMVGFIITGLSVVGSIFNIVIAINRYCYICH
M GNIFVASILSVADMLVAIYPYPLMLYAMSVGGDWLSQLQCOMVGVTGLSVVGSIFNITAIAINRYCYICH
R ---

H SLQYERIFSVRNTCIYLVITWIMTVLVLPNMYIGTIEYDPRTYTCIFNYLNNPVFVTIVCIVHFVLPPLI
M SLQYKRIFSLRNTCIYLVVTWVMTVLAFLPNMYIGTIEYDPRTYTCIFNYVNNPAAFTVTVIHFVLPPLI
R SIQYNADIQPANTCIYIIVVTTWVMTVLDVLPNVYIGTIEYDPRTYTCYENYVNNPAAFTVTVIHFVLPPLI

H IVGFCCYVRIWTKVLAARDPAGQNPDNQFALAEVRNFLTMFVIFILLFAVCWCPCINVLTVLVAVSPKEMAGKIP
M IVGCYCTKIKVLAARDPAGQNPDNQFAEVVRNFLTMFVIFILLFAVCWCPCPVNVLTVLVAVIPKEMAGKIP
R IVGCYCTKIKVLAADRDPAGQNPDNQFAEVVRNFLTMFVIFILL

H NWLYLAAYFIAYFNSCLNAVIIYGLLNENFREYWTIFHAMRHPIIFFPGLIISDIREMQEARTLARARAHA
M NWLYLAAYCIAYFNSCLNAVIIYGLINESFRREYWTIFHAMRHPILFISHLISDIRETWETRALTRARVRA
R ---

H RDQAREQDRAHACPAVEETPMNVRNVPLPGDAAGHPDRASGHPKPHSRSSSSAYRKSASTHHKSVFSHSK
M RDQVREQERARACVAEGTPRNVRNVLLPGDASAPHSDRASVRPKPQT
R ---

Fig. 1A

Applicants: David White

Serial No.: 10/666,807

Filed: September 18, 2003

Title: COMPOSITIONS, KITS AND METHODS FOR PROGNOSTICATION.

DIAGNOSIS, PREVENTION, AND TREATMENT OF BONE-RELATED

DISORDERS AND OTHER DISORDERS

Attorney/Agent: Kerri Pollard Schray

Docket No.: MPI99-130P1RCN1M

Sheet 2 of 19

AASGLHLKPVSGHSKPASGHPKSA-TVYPPKPASSVHFKGDSVHFKPDSVHFKPASSSNPKPITGHH
H PASIHHKSISGHPKASAVVYPKPASSVHCKPKASSVHFKPASVHFKGDSVVFKGDTVHYRAAS---KLVTSHR
M

VSAAGSHSKSAFSAAATSHPKP-----IKPATSHAEPTTSHPRATTSHPKP-----PSTSHPTSMAGYIKSGTSHPATTVDYLEPATTSHSVLTAVDLPEVSASHCLEMENTSTG
ISAG-----M

H HPVSSDDSLPESASSPAAGPTKPAASQLESDETTIADLPDPTVVTTSTNDYHDVVVVVD---VEDDPDEMAV
M HLRAD----ISASVLPSPVPFELAATP-----PDTTAIPIASGDYRKVVVLIDDDSDDCSDEMAV
R -----

Fig. 1B

Applicants: David White

Serial No.: 10/666,807

Filed: September 18, 2003

Title: COMPOSITIONS, KITS AND METHODS FOR PROGNOSTICATION,
DIAGNOSIS, PREVENTION, AND TREATMENT OF BONE-RELATED
DISORDERS AND OTHER DISORDERS

Attorney/Agent: Kerri Pollard Schray

Docket No.: MPI99-130P1RCNIM

Sheet 3 of 19

TGTTTGCTGGACCTGGCTGATCCTGAGGAGATCTAACGATCCCCAGGGACACATGGGGCCACCCCTAG
CGGTTCACCCCTATGGCTGTATTGGCTGTAAGCTACCCCAAGGAATAACCCACCGGCTCTAAATCATCTTATGTTCTGGCG
GATGGTTATCACCATCGTTAGACCTAATCGGCAACTCCATGGTCATTGGCTGACGAAGAACAAAGAAGCTCCGAATTCTGGGAATTCT
GGCAACATCTCGTGGTCAGTCTCTGTGGCGATATGCTGGCCATACCCATACCCATGGCTGATGCTGCATGCCATGTCCAACAT
TTGGGGGCTGGGATCTGAGCCAGTTACAGTGCCAGATGGTGGGGTCAATCACAGGGCTGAGTGTGGCTGGCTCCATCTCAACAT
CGTGGCAATCGCTATCAACCCTACCGTTACTGCTACATCTGCCACAGCCTCCAGTACGAACGGATCTCAGTGTGGCAATAACCTGCACCT
TACCTGGTCATCACCTGGATCATGACCGTCTGGCTGCCAACATGTACATGGCACCATCGAGTACGATCCCTCGCAGCT
ACACCTGCATCTCAACTATCTGAACAACCCCTGTTACCATGCTGCCATCCACTCGTGCATCCACTCGTCCCTCTCCATCTCGT
GGGTTCTGCTACGTGAGGATCTGGACCAAAGTGTGCTGGGGCCCGTGCACCTGGCTGGTGCCTATCAACGTGCTCAACTGCTACT
GTTCGCAATTCTAACCATGTTGTGATCTTCCTCCATTGCAAGTGTGCTGGTGCCTACTGCTACTCATAGCCTACTCAACAGCTGCCT
CTGTCAGTCCAGGGAAAGTGGCAGGGAAAGATCCCCAACTGGCTTATCTTGCAGCCCTACTGGCTTACTGGCT
CAACGCTGTGATCTACGGGCTCCTCAATGAGAAATTCCGAAGAGAATACTGGACCAATCTCATGCTATGCGGCACCCATCAT
TTCTTCCCTGGCCTCATCAGTGATATTCTGTGAGATGCAGGGCCCGTAGCCCTGGCCCGCCGTGCCCATTGCTGGTGC
CTCGTGAACAAGACCGTGGCCATGGCTGCTGGGAGAAACCCGATGAATGTCGGGAATGTCCTGGAAATGTCCTGGATGC
TGCAGCTGGCACCCCGACCGTGGCTCTGGCCACCCTAAGCCCCATTCCAGATCCCTCTGCCTATCGCAAATCTGCCTCTAC
CACCAAGCTGTCTTACGGCTGCTGGCCACTCCAAAGGCTGCTCTGGTCACCTCAAGGCCTGTCTGGCCACTCCAAAGCC
ACCCCAAGTCTGCCACTGTCTAACCTAACGCTTAAGCCCTAGTCCATTCAAGGGTGACTCTGTCATTTCAAGGGTGACTCTGTCCA
TTCAAGGCTGACTCTGTTCAAGGCCATTCAAGGCCATCAAGCCACCCCTAAACCCATCAAGCCAGCTACCAAGCC
TCCAAGTCTGCCATTCAAGGCCACCCCTAACGCTAACCCCTAACGCTAACCCCTAACGCTAACCC
ATCCCAAGCCCTGCCACTAACGCCCCACTAACGCTAACCCCTAACGCTAACCC
TGCCATTGCCACCCCTGTGCTGACGACAGTGAACCTCCCTGAGTGGCCTCTAGCCCTGGGGTGGCC
AGCCAGCTGGAGTCTGACACCATCGCTGACCCATTGCTACTGTAGTCACTACCAATGATTACCATGATGTCGTTGG
TTGTTGATGTTGAAGATGATCCCTGATGAAATGGCTGTGTTGAAATGGCTCTCGTAGGTGGCAGGCACT

Fig. 2A

AAGATCCTGAGCTTGCCTGGGAGGAATGCCACGGTCCCAAGAGCAACATGGACTACAAGGGACTTCCCACCCCCATTGGC
TGCATTGGCTGTAAGCTGCCAAGGCCGACTACCCGCCAGCTCTAATCATCTCATGTTCTGGCAATGGTCATCACAGTCGTG
TAGACTGTGGAACTCCATGGTCATTTGGCTGTGACCAAGAACAGCTCGAAATTCTGGCAACATCTTGTGGCCAG
CCTCTGTGGAGACATGCTGGCCATCTACCCCTACCCCTTGTGATGGTGTATGCCATGTCAAGTGGGATCTGAGT
CAGCTCCAGTGGCAGATGGTCGGTGGTACAGGACTGAGCGTAGTCCAGGCTTAACATTAACATTACTGCCATTGCCATCAAC
GTTACTGCTACATCTGCCACAGCCTCCAAATAACAGGATCTCAGGCTAACATGTACATTGGCACCATTGAGTATGACCTCGCA
CATGACTGTCCCTGGCTGTCCCTGCCCTAACATGTACATTGGCACCATTGAGTATGACCTCGCAACCTGCAACT
GTGAACAATCCCTGCCATTACCGTACCCATTGTGCACTCCACTCGTCCCTCCCTCATCATAGTTGTTATTGCTAC
TCTGGATCAAAGTGCTGGCAGGCCGTGACCAAGAATCCTGACAACCAGTTGCTGGCTCAATGTGCTCACTGTGTT
GTTTGATCTCCCTCTTTCAGTTGCTGGCCCTGTCAATGGCTCAACTGGCATAGCTTCAACAGCTTCAACGCCAT
CAGGCAAGATCCCCAACACTGGCTTATCTTGAGCCCTACTGGCATAGCTTCAACAGCTTCAACGCCAT
CCTCAATGAGAGTTCCGAAGAGAAATACTGGACCACTTCCATGCTATGCCACCCCTATCTGTTCATCTCACCTCATCAGT
GATATTGGGAGACTTGGAGACCCGAGCTCTCACTCGTGGCCGTGCCCCGTGATCAAGTCCGAGAGCAAGGGCTGCTC
GTGCCCTGTGTCGCTGTGGAGACACTGGCCATTGCAAGGAACGGAACTGGCTGGGGAAATGGTCTACTGGCT
TGCCTCTGTCCGTCCTCAACCTGCTACTTGTCTACCGCAAAACAGGTCTACTCCACACAAGTCTATTTCTGGC
CACCCCAAGTCTGCCTCTGTTACCCCTAAGCCAGGCCCTCCCTGTGTCATTGCAAGGCCCTGCCTCTGTC
TTCAATTCAAGGGGTGACTCTGTCATTCAAGGGAGACACTGTCAGGGCTGCTCCATTGCAAGCTCCAAACTGGTCA
CTCTGCTGGCCCTTCCACCAAGTCACTGGCTACATTAAATCTGGTACCCCTGAGGTCTCACGCCCTGGCT
GACTATCTCGAACCTGCCACCCAGCCACTCTGTGCTCACTGTCGACCTCCCTGAGGTCTCACGCCCTGGCT
TGACCAAGCAGTGGCCACCTCAGAGCTGACATTTCGCTTCCCTGAGGTCTCACGCCCTGGCT
TACCACTGCCAATCCCCATTGCCCTGTGGTACCCATTGGCTGCTGATGATTGATGATTGCTGAT
GAGATGGCTGTGA

Fig. 2B

Applicants: David White

Serial No.: 10/666,807

Filed: September 18, 2003

Title: COMPOSITIONS, KITS AND METHODS FOR PROGNOSTICATION,
DIAGNOSIS, PREVENTION, AND TREATMENT OF BONE-RELATED
DISORDERS AND OTHER DISORDERS

Attorney/Agent: Kerri Pollard Schray

Docket No.: MPI99-130PIRCN1M

Sheet 5 of 19

TACTGCTACATCTGCCACAGCCTCCAGTACAATGGGATCTTCAGCCTAACACTTGCACTCTATCGTTACCTGGTGTGTTACCTGGTCA
TGACTGTTCTGGATGTCCTGCCATAATGTGTACATTGGCACCATGGTACATGAGTATGACCCCTCGCACCTACACCTGCTACTTCAACTATGT
GAACAAAC CCTGCCTTACTGTGACCATTGTCTGCATCCACTTGCTCCCTCATCATAGTCGGTTATTGCTACACAAAAATC
TGGATCAAAGTGCTGGCAGACGGGACCCAGCTGGACAGAATCCTGACAACCAGTTGCTGAGGTTGCTAACTTCTAACCATGT
TTGTGATCTCCTCCT

Fig. 2C

Applicants: David White

Serial No.: 10/666,807

Filed: September 18, 2003

Title: COMPOSITIONS, KITS AND METHODS FOR PROGNOSTICATION,
DIAGNOSIS, PREVENTION, AND TREATMENT OF BONE-RELATED
DISORDERS AND OTHER DISORDERS

Attorney/Agent: Kerri Pollard Schray

Docket No.: MPI99-130P1RCN1M

Sheet 6 of 19



FIG. 3

Applicants: David White

Serial No.: 10/666,807

Filed: September 18, 2003

Title: COMPOSITIONS, KITS AND METHODS FOR PROGNOSTICATION,
DIAGNOSIS, PREVENTION, AND TREATMENT OF BONE-RELATED
DISORDERS AND OTHER DISORDERS

Attorney/Agent: Kerri Pollard Schray

Docket No.: MPI99-130P1RCN1M

Sheet 7 of 19



FIG. 4A

Applicants: David White

Serial No.: 10/666,807

Filed: September 18, 2003

Title: COMPOSITIONS, KITS AND METHODS FOR PROGNOSTICATION,
DIAGNOSIS, PREVENTION, AND TREATMENT OF BONE-RELATED
DISORDERS AND OTHER DISORDERS

Attorney/Agent: Kerri Pollard Schray

Docket No.: MPI99-130P1RCNIM

Sheet 8 of 19

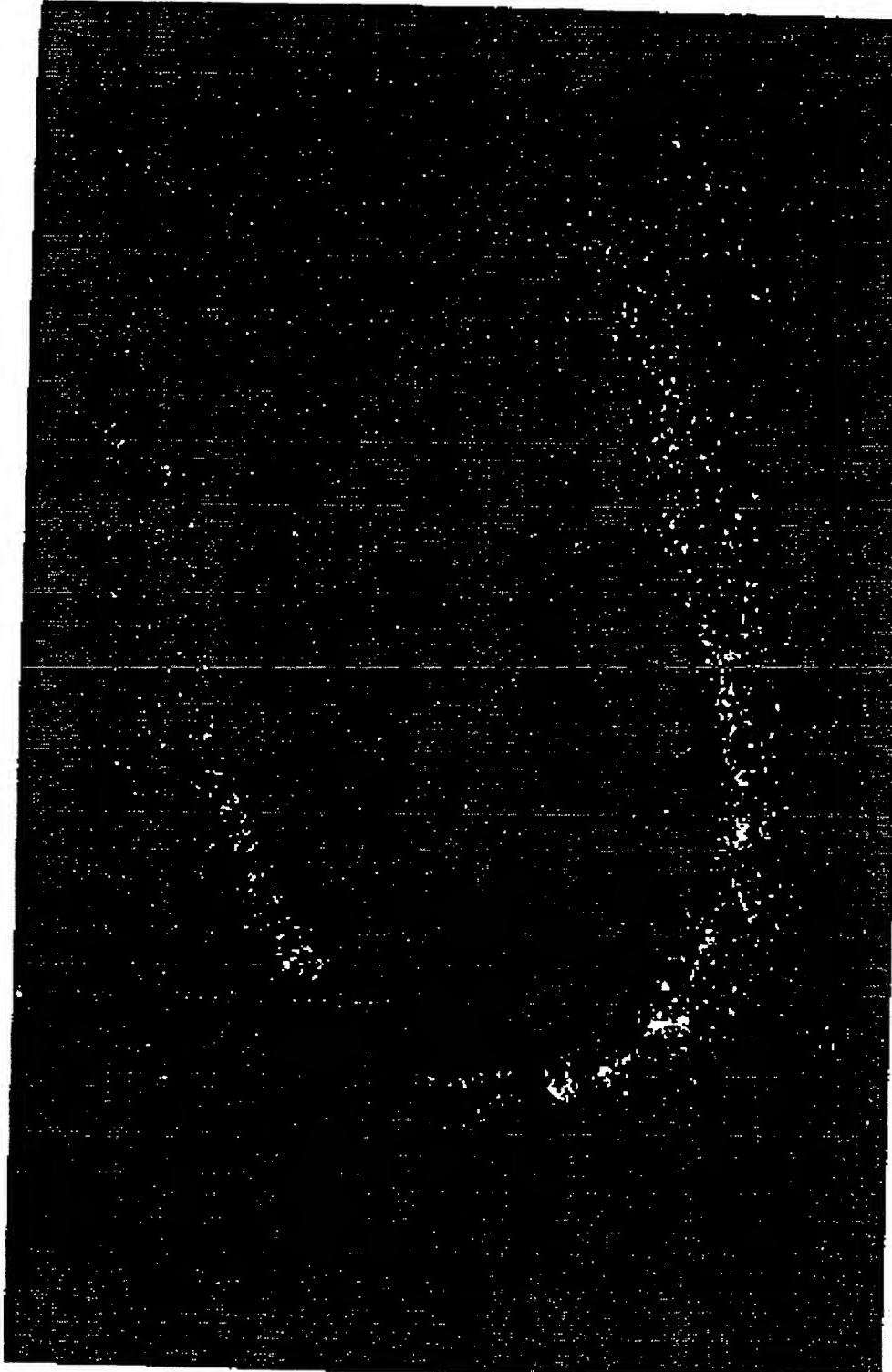


FIG. 4B

Applicants: David White

Serial No.: 10/666,807

Filed: September 18, 2003

Title: COMPOSITIONS, KITS AND METHODS FOR PROGNOSTICATION,
DIAGNOSIS, PREVENTION, AND TREATMENT OF BONE-RELATED
DISORDERS AND OTHER DISORDERS

Attorney/Agent: Kerri Pollard Schray

Docket No.: MPI99-130P1RCN1M

Sheet 9 of 19



FIG. 4C

Applicants: David White

Serial No.: 10/666,807

Filed: September 18, 2003

Title: COMPOSITIONS, KITS AND METHODS FOR PROGNOSTICATION,
DIAGNOSIS, PREVENTION, AND TREATMENT OF BONE-RELATED
DISORDERS AND OTHER DISORDERS

Attorney/Agent: Kerri Pollard Schray

Docket No.: MPI99-130P1RCN1M

Sheet 10 of 19

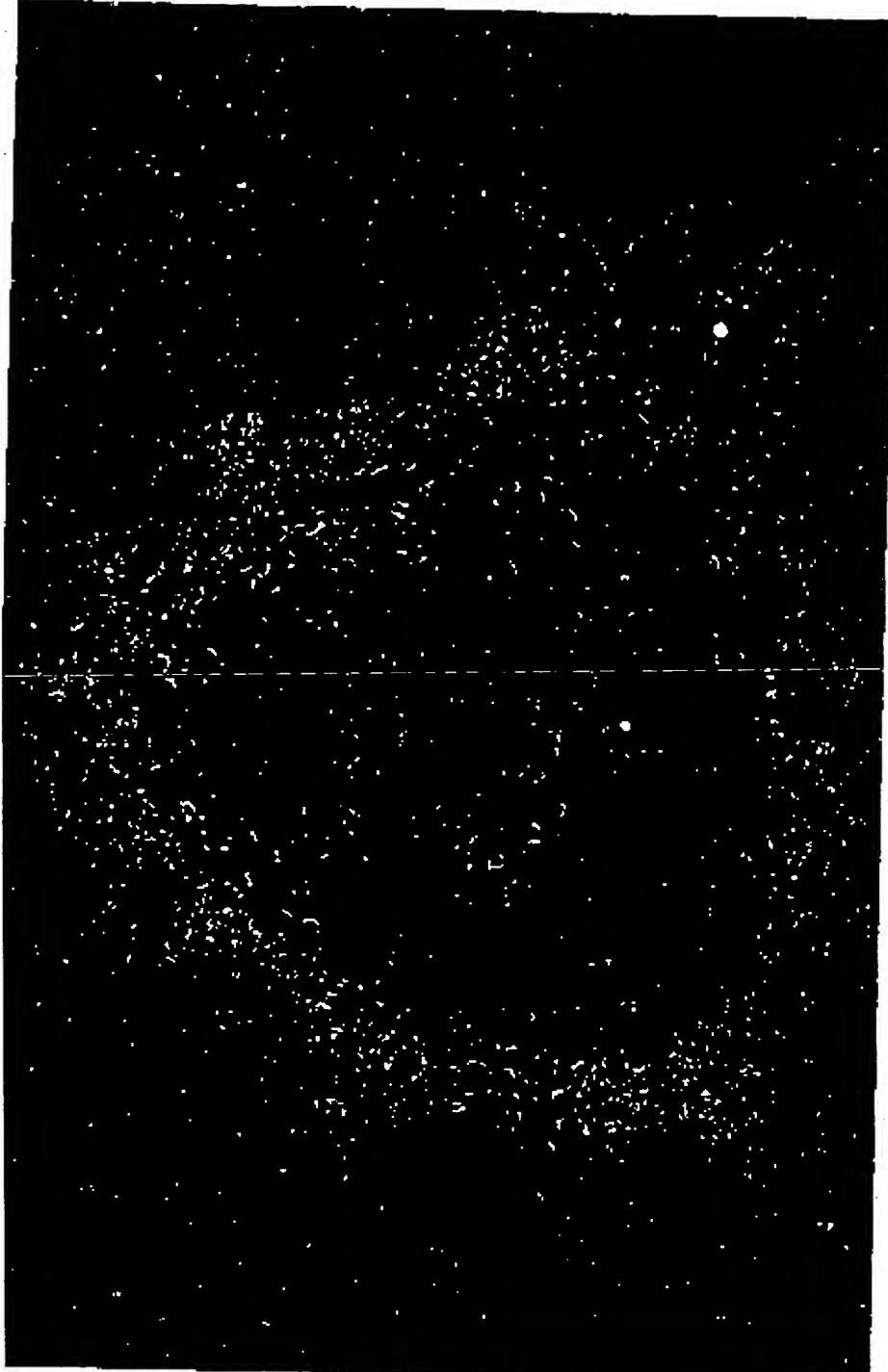


FIG. 4D

Applicants: David White

Serial No.: 10/666,807

**Serial No.: 10011111
Title: COMPOSITIONS, KITS AND METHODS FOR PROGNOSTICATION,
DIAGNOSIS, PREVENTION, AND TREATMENT OF BONE-RELATED
DISORDERS AND OTHER DISORDERS**

Attorney/Agent: Kerri Pollard Schray

Docket No.: MPI99-130P1RCN1M

Filed: September 18, 2003

Sheet 11 of 19

AF003625 27599 tggatctggacccgtggatcctgagccctgtggagatcttaacgatcccc
U52219 1 tggatctggacccgtggatcctgagccctgtggagatcttaacgatcccc

AF003625	27719	ctacccaggcagaataccaccggcttaatcatctttatgttctgcggatggttatc
U52219	121	ctacccaggcagaataccaccggcttaatcatctttatgttctgcggatggttatc
MRE AA	18	T P Q R E Y P P A L I F C A M V I

Fig. 5A

Applicants: David White

Serial No.: 10/666,807

Filed: September 18, 2003

Title: COMPOSITIONS, KITS AND METHODS FOR PROGNOSTICATION,
DIAGNOSIS, PREVENTION, AND TREATMENT OF BONE-RELATED
DISORDERS AND OTHER DISORDERS

Attorney/Agent: Kerri Pollard Schray

Docket No.: MPI99-130P1RCNIM

Sheet 12 of 19

AF003625	27839	aagctccggaaattctgg 	
U52219	241	aagctccggaaattctgg	
MRR AA	58	K L R N S G	
AF003625	30712	ttcaggcaacatcttcgtggtcagtctcgatgtggccatctgtggccatctaccc 	
U52219	252	ttctggcaacatcttcgtggtcagtctcgatgtggccatctgtggccatctaccc S G N I F V S L S V A D M L V A I Y P	
MRR AA	62		
AF003625	30772	ataccctttgatgtccatgtccattggggctgggatctgaggccatgtgg 	
U52219	312	ataccctttgatgtccatgtccattggggctgggatctgaggccatgtgg Y P L M H A M S I G W D L S Q L Q C	
MRR AA	82		
AF003625	30832	ccagatggtcgggttcatcacaggcgtggatgtggccatctcaacatcg 	
U52219	372	ccagatggtcgggttcatcacaggcgtggatgtggccatctcaacatcg Q M V G F I T G L S V V G S I F N I V A	
MRR AA	102		

Fig. 5B

Applicants: David White

Serial No.: 10/666,807

Filed: September 18, 2003

Title: COMPOSITIONS, KITS AND METHODS FOR PROGNOSTICATION,
DIAGNOSIS, PREVENTION, AND TREATMENT OF BONE-RELATED
DISORDERS AND OTHER DISORDERS

Attorney/Agent: Kerri Pollard Schray

Docket No.: MPI99-130P1RCN1M

Sheet 13 of 19

AF003625 30892 aatcgctataaccgttactgctacatctggccacaggcctccagtaacggatcttcag
|||||||
U52219 432 aatcgctataaccgttactgctacatctggccacaggcctccagtaacggatcttcag
I A N R Y C Y I C H S L Q Y E R I F S
MRR AA 122

AF003625 30952 tgtgcgcaataccgttactgcatcacctggatcatgaccgttcgtggctgtcct
|||||||
U52219 492 tgtgcgcaataccgttactgcatcacctggatcatgaccgttcgtggctgtcct
V R N T C I Y L V I T W I M T V L A V L
MRR AA 142

AF003625 31012 gccccaaatgttacattggcaccatcgaggatcgttccgacccatcacctgcac
|||||||
U52219 552 gccccaaatgttacattggcaccatcgaggatcgttccgacccatcacctgcac
P N M Y I G T I E Y D P R T Y T C I F N
MRR AA 162

AF003625 31072 ctatctggacaaaccctgtttcaactgttaccatgttccacttcgtccctccct
|||||||
U52219 612 ctatctggacaaaccctgtttcaactgttaccatgttccacttcgtccctccct
Y L N N P V T I V C I H F V L P L
MRR AA 182

Fig. 5C

Applicants: David White

Serial No.: 10/666,807

Title: COMPOSITIONS, KITS AND METHODS FOR PROGNOSTICATION,
DIAGNOSIS, PREVENTION, AND TREATMENT OF BONE-RELATED
DISORDERS AND OTHER DISORDERS

Attorney/Agent: Kerri Pollard Schray

Docket No.: MPI99-130P1RCNIM

Filed: September 18, 2003

Sheet 14 of 19

AF003625 31132 cctcatcggtttctgaggatctggaccaaagtgtggcccccgtgaccc
U52219 672 202 L I V G F C Y V R I W T K V L A A R D P
MRR AA

AF003625 31192 tgcaggcagaatccgtgacaaccacttgctgagggttcgaatttctaaccatgttgt
U52219 732 222 A G Q N P D N Q L A E V R N F L T M F V
MRR AA

AF003625 31252 gatcttccttcgttgcagttgtggccatatcaacgtgctcactgtctttggcggc
U52219 792 242 I F L L F A V C W C P I N V L T V L V A
MRR AA

AF003625 31312 tgtcagtccgaaggagatggcaggcaagatccccaaactggcttatcttgccaggctactt
U52219 852 262 V S P K E M A G K I P N W L Y L A A Y F
MRR AA

Fig. 5D

Applicants: David White

Serial No.: 10/666,807

Filed: September 18, 2003

Title: COMPOSITIONS, KITS AND METHODS FOR PROGNOSTICATION, DIAGNOSIS, PREVENTION, AND TREATMENT OF BONE-RELATED DISORDERS AND OTHER DISORDERS

Attorney/Agent: Kerri Pollard Schray

Docket No.: MPI99-130P1RCN1M

Sheet 15 of 19

AF003625	31372	cataggctacttcaacagctggctcaacgctgtgatctacgggtccatgagaattt
U52219	912	cataggctacttcaacagctggctcaacgctgtgatctacgggtccatgagaattt
MRR AA	282	T A Y F N S C L N A V I Y G L L N E N F

AF003625	31492	cctcatcgatgtgatattcgatgcaggaggccgtaccctggccggccgtggccca
U52219	1032	cctcatcgatgtgatattcgatgcaggaggccgtaccctggccggccgtggccca
MRR AA	322	L I S D I R E M Q E A R T L A R A H

AF003625	31552	tgctcgaccaaggactcgtaacaaggaccgtggccatgcctgtggagaaac
U52219	1092	tgctcgaccaaggactcgtaacaaggaccgtggccatgcctgtggagaaac
MRE AA	342	A B D C A B E O D R A H A C P A V E E T

Fig. 5E

Applicants: David White

Serial No.: 10/666,807

Filed: September 18, 2003

Title: COMPOSITIONS, KITS AND METHODS FOR PROGNOSTICATION,
DIAGNOSIS, PREVENTION, AND TREATMENT OF BONE-RELATED
DISORDERS AND OTHER DISORDERS

Attorney/Agent: Kerri Pollard Schray

Docket No.: MPI99-130PIRCNIM

Sheet 16 of 19

AF003625 31612 cccgatgaatgtccggaatgttccattaccctggatgtccagtcgcaggctggccacccggaccg
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
U52219 1152 cccgatgaatgtccggaatgttccattaccctggatgtccagtcgcaggctggccacccggaccg
P M N V R N V P L P G D A A G H P D R
MRR AA 362

AF003625 31672 tgcctctggccacccttaagccccattccagatcccttcgcctatcgcaaatctgcctc
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
U52219 1212 tgcctctggccacccttaagccccattccagatcccttcgcctatcgcaaatctgcctc
A S G H P K P H S R S A Y R K S A S
MRR AA 382

AF003625 31732 tacccaccacaagtctgttttagccactccaaggctgccctctggtcacccataaggccctgt
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
U52219 1272 tacccaccacaagtctgttttagccactccaaggctgccctctggtcacccataaggccctgt
T H H K S V F S H S K A A S G H L K P V
MRR AA 402

AF003625 31792 ctctggccactccaaggcctgtggtaccccaagtctggccactgtctaccctaaggcc
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
U52219 1332 ctctggccactccaaggcctgtggtaccccaagtctggccactgtctaccctaaggcc
S G H S K P A S G H P K S A T V Y P K P
MRR AA 422

Fig. 5F

Applicants: David White

Serial No.: 10/666,807

Filed: September 18, 2003

Title: COMPOSITIONS, KITS AND METHODS FOR PROGNOSTICATION,
DIAGNOSIS, PREVENTION, AND TREATMENT OF BONE-RELATED
DISORDERS AND OTHER DISORDERS

Attorney/Agent: Kerri Pollard Schray

Docket No.: MPI99-130PIRCNIM

Sheet 17 of 19

AF003625 31852 tgccctctgtccatttcaaggctgactctgtccatttcaagggtgactctgtccatttcaa
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
U52219 1392 tgcctctgtccatttcaagggtgactctgtccatttcaagggtgactctgtccatttcaa
MRR AA 442 A S V H F K G D S V H F K G D S V H F K

AF003625 31912 gcctgactctgtttcatttcaaggctgcttcaggcaaccccaaggccatcaactggccacca
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
U52219 1452 gcctgactctgtttcatttcaaggctgcttcaggcaaccccaaggccatcaactggccacca
MRR AA 462 P D S V H F K P A S N P K P I T G H H

AF003625 31972 tgtctctgtggcaggccactccaaggctgcttcaggcttcaagtgtccatggccaccctaaacc
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
U52219 1512 tgtctctgtggcaggccactccaaggctgcttcaggcttcaagtgtccatggccaccctaaacc
MRR AA 482 V S A G S H S K S A F S A T S H P K P

AF003625 32044 catcaaggccaggcatgtggccaccactgtgactatcccaggccatgtggccacc
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
U52219 1572 catcaaggccaggcatgtggccaccactgtgactatcccaggccatgtggccacc
MRR AA 502 I K P A T S H A E P T A D Y P K P A T

Fig. 5G

Applicants: David White

Serial No.: 10/666,807

Filed: September 18, 2003

Title: COMPOSITIONS, KITS AND METHODS FOR PROGNOSTICATION,
DIAGNOSIS, PREVENTION, AND TREATMENT OF BONE-RELATED
DISORDERS AND OTHER DISORDERS

Attorney/Agent: Kerri Pollard Schray

Docket No.: MPI99-130P1RCN1M

Sheet 18 of 19

AF003625 32104 taccaggccaccttaaggccactgtgctgacaacccctgagctctggcattggccc
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
U52219 1632 taccaggccaccttaaggcccgctgctgacaacccctgagctctggcattggccc
522 T S H P K P A A D N P E L S A S H C P

AF003625 32164 cgagatccctgcccattggccaccctgtgtctgacgacagtgacccctgaggtcggcctc
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
U52219 1692 cgagatccctgcccattggccaccctgtgtctgacgacagtgacccctgaggtcggcctc
542 E I P A I A H P V S D D S D L P E S A S

AF003625 32224 tagccctgcccgtggcccaccaaggccctgcccaggctggaggctgacaccatcg
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
U52219 1752 tagccctgcccgtggcccaccaaggccctgcccaggctggaggctgacaccatcg
562 S P A A G P T K P A A S Q L E S D T I A

AF003625 32284 tgaccctccctgaccctactgtactaccatgattaccatgatgtcggtgg
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
U52219 1812 tgaccctccctgaccctactgtactaccatgattaccatgatgtcggtgg
582 D L P D P T V V T S T N D Y H D V V

Fig. 5H

Applicants: David White

Serial No.: 10/666,807

Filed: September 18, 2003

Title: COMPOSITIONS, KITS AND METHODS FOR PROGNOSTICATION,
DIAGNOSIS, PREVENTION, AND TREATMENT OF BONE-RELATED
DISORDERS AND OTHER DISORDERS

Attorney/Agent: Kerri Pollard Schray

Docket No.: MPI99-130P1RCN1M

Sheet 19 of 19

AF003625 32344 tattgatgttgaagatgatggctgtatggaaatggctgtgtaaaaatgctctcgtaggtggc
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
U52219 1872 ttttgatgttgaagatgatggctgtatggaaatggctgtgtaaaaatgctctcgtaggtggc
602 V D V E D D P D E M A V ^^^^

AF003625 32404 caggcagt
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
U52219 1932 caggcagt

Fig. 5I